

SECTION 27 - CONSTRUCTION PLAN SUBMITTALS

27-1 Water and Sewer Plan Submittal Standards

Submit five sets of plans.

27-1.1 The following shall be submitted with the plans:

- A. \$460.00 deposit on Plan Check Fee
- B. Engineer's Estimate
- C. Deeds for Easements
- D. Any necessary plans for construction to be done in conjunction with the construction of the sanitary sewer and/or water.

27-1.2 Original drawings shall be:

- A. "C" Size, 36" x 12" as shown on Standard Drawing P-85.
- B. Dieterich - Post clear print paper no. 1000-H or approved equal.

27-1.3 The cover drawing shall show the following:

- A. Vicinity Map
- B. Subdivision Map with Street Names, Scale: 1" = 100'
- C. General Construction Notes
- D. Property Lines
- E. Lot or Parcel Numbers
- F. North Arrow
- G. Scale
- H. Benchmark
- I. Fee Block
- J. Legend
- K. Water Division Signature Block
- L. Fire Department Signature Block (if applicable)
- M. Fresno Irrigation District Signature Block (if applicable)
- N. Underground Service Alert (USA) Note
- O. List of Material Furnished by the Water Division
- P. Engineer's Name, Address, Telephone, Stamp, Expiration Date, Signature, Date of Signing
- Q. Owner's Name & Address
- R. Complete Title Block
- S. Sheet Index Numbers
- T. Easements
- U. Water System
 - a. Size of pipe
 - b. Valve locations
 - c. Fire hydrant locations
 - d. Blow-offs

- e. Water services
- Sanitary Sewer System
 - f. Size of pipe
 - g. Manholes
 - h. Slope of flow line
 - i. Flow Line elevations
 - j. House branches
 - k. Storm drains, manholes, and catch basins

27-1.4 Each drawing shall show the following:

- A. North arrow shall customarily point to the top or right of the drawing
- B. Scale
- C. Complete Title Block including street name and project limits
- D. Engineer's Stamp, Expiration Date, Signature, Date of Signature
- E. Street names and widths
- F. Curb patterns and valley gutters
- G. Lot lines and lot numbers
- H. Easements
- I. Sheet numbers for all adjacent sheets

27-1.5 The plan view shall show the following:

- A. Sanitary Sewer System
 - a. Size of pipe
 - b. Pipe material
 - c. Manhole size and station
 - d. Distance from sewer to property line
 - e. Flow line elevations of all sewers intersecting a manhole
 - f. House branches for each lot with size, length, and station
 - g. Total number and size of all house branches for each street
 - h. Slope of the flow line
 - i. Existing ground and future elevation of street centerline
 - j. Length, in feet, of sewer to be installed
 - k. All sewer stubs, size, and length
 - l. Stationing shall begin from an existing sewer at the lowest point
 - m. Bearing of sewer
 - n. Material and Class of Backfill to be Used in Pipe Embedment Zone
- B. Water System
 - a. Size of pipe
 - b. Pipe material
 - c. Distance from main to property line
 - d. Length, in feet, of pipe to be installed
 - e. Fire hydrant with station
 - f. Valve locations with size, type and station
 - g. Location of water service

- h. Station for T's, crosses, 45° and 90° Ells, etc...
- i. Blow-off size and station
- j. Bearing of main (in easements only)
- k. Water supply wells and mains within 10 feet of a sanitary sewer main shall be indicated on plans.

27-1.6 The profile view shall show the following:

- a. Horizontal scale shall be 1" = 40' (1" = 20' may be required if area is congested.)
- b. Vertical scale shall be 1" = 4'
- c. Existing and proposed ground and/or street surface profiles

27-1.7 All elevations shall be on United States Geodetic Survey (U.S.G.S.) mean sea level datum adjusted to 1970.

27-1.8 Underground utilities which may conflict

27-1.9 Sanitary sewer system

- a. Flow line elevation along center line of sewer
- b. Size of pipe
- c. Pipe material
- d. Slope of the flow line
- e. Cut in feet and flow line elevation at each manhole
- f. All manholes and their station
- g. Length, in feet, of sewer to be installed
- h. Stationing shall begin from an existing sewer at the lowest point.

27-1.10 Water System

- A. Top and bottom of the main
- B. Size and material of the main
- C. Slope of the main
- D. Location of all blow-offs, air and vacuum valves, centerlines of intersection streets and other appurtenances with both station and elevation where applicable.
- E. Elevations to nearest 0.10 foot of top of pipe.

27-1.11 Sanitary sewers located within 50 feet of a water supply well shall be constructed of material to prevent contamination of the well.

27-1.12 The Engineer shall submit seventeen (17) sets of plans to the City after the plans are signed by the City.

- 27-1.13** The Engineer may submit a plan view layout of the water or sanitary sewer system for design suggestions prior to drawing final plans.

27-2 STREET PLAN SUBMITTAL STANDARDS

Submit six sets of plans for tracts.

Submit four sets of plans for miscellaneous developments.

27-2.1 The following shall be submitted with the plans:

- A. \$460.00 deposit on Plan Check Fee
- B. Engineer's Estimate
- C. Estimate of UGM work
- D. All Deeds for Easements and Dedications
- E. Structural section calculations
- F. Plans, details, and CIA calculations for ponding basins
- G. Any necessary plans for construction to be done in conjunction with the construction of the street improvements
- H. Sanitary sewer, water, and storm drain improvement plans

27-2.2 Original drawing shall be:

- A. "C" Size, 36" x 12" as shown on P.W. Standard Drawing P-85
- B. Dieterich - Post clear print paper No. 1000-H or approved equal

27-2.3 The cover drawing shall show the following:

- A. Vicinity Map
- B. Subdivision Map with Street Names, Scale: 1" = 100'
- C. General Construction Notes
- D. Property Lines
- E. Lot or Parcel Numbers
- F. North Arrow
- G. Scale
- H. Benchmark
- I. Fee Block
- J. Legend
- K. Traffic Division Signature Block
- L. FMFCD Signature Block
- M. Fresno County Signature Block (required only if any part of work is outside the City and in the County)

- N. Underground Service Alert (USA) Note
- O. Engineer's Name, Address, Telephone, Stamp, Expiration Date, Signature, Date of Signature
- P. Owner's Name and Address
- Q. Complete Title Block
- R. Typical Section
 - (a) Structural Section
 - (a) Cross Slopes
 - (b) Sidewalk Pattern
 - (c) Right-of-Way Width
- S. Sheet Index Numbers

27-2.4 Each drawing shall show the following:

- A. North arrow shall point to the top or right of the drawing
- B. Scale
- C. Complete Title Block including street name and project limits
- D. Engineer's Stamp, Expiration Date, Signature, Date of Signature
- E. Site Plan, C.U.P., Rezone, Parcel Map, U.G.M., or F.A.U. Number

27-2.5 The plan view shall show the following:

- F. Scale shall be 1" = 40' or 1" = 20'
- G. Right-of-way Width
- H. Street Width - Curb face to Curb face
- I. Sidewalk Pattern
- J. Valley Gutters
- K. Lot Lines & Lot Numbers or APN's
- L. Easements
- M. Dedications
- N. Driveway Location & Width
- O. Existing Utilities